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It is noteworthy that a large hydrophobic region of gp160 is retained in this protein and is indicated in the above sequence in italic and boldface and double underscore. This 29mer (from positions 523 to 551) is an example of an endogenous hydrophobic sequence and can be exploited in the vaccine composition.

1 MAMRAKGIRK NCQHLWRWGT MLLGMLMICS AA/ANLWVTY YGVPVWKEAT  
 51 TTLFCASDAK AYDTEAHNVW ATHACVPTNP NPQEVVLENV TENFNMWKNN  
 101 MVEQMHEDEI SLWDQSLKPC VKLTPLCVTL NCTDLNTNNT TNTTELSIIV  
 151 VWEQRGKGEM RNCSEFNITTS IRDKVQREYA LFYKLDVEPI DDNKNTTNNT  
 201 KYRLINCNTS VITQACPVS FEPIPIHYCT PTGFALLKCN DKKFNGTGPC  
 251 TNVSTVQCTH GIRPVVSTQL LLNGSLAEEE VVIRSEFTN NAKTIIVQLN  
 301 VSVEINCTRP NNHTRKRVTL GPGRVWYTTG EILGNIRQAH CNISRAQWNN  
 351 TLQQIATTLR EQFGNKTI AF NQSSGGDPEI VMHSFNCGGE FFYCNSTQLF  
 401 NSAWNVTNSG TWSVTRKQKD TGDIIITLPCR IKQIINRWQV VGKAMYALPI  
 451 KGLIRCSSNI TGLLLTRDGG GENQTTEIFR PGGGDMRDNW RSELYKYKVV  
 501 KIEPLGVAPT KAKRRVVQRE KR\AVGMLGAM FLGFLGAAGS TMGATSMALT  
 551 VQARQLLSGI VQQQNNLLRA IKAQQHLLQL TVWGIKQLQA RILAVERYLK  
 601 DQQLLGFWGC SGKLICTTAV PWNASWSNKT LDQIWNMTW MEWDREIDNY  
 651 THLIYTLIEE SQNQEQKNQQ ELLQLDKWAS LWTWSDITKW LWYIKIFIMI  
 701 VGGLIGLRIV FAVLSIVNRV RQYSPLSFQ TLLPNPRGPD RPEGTEEGGG  
 751 ERGRDGSTRL VHGFALVWD DLRSCLFSY HRLRDLLIV ARIVELLGRR  
 801 GWEVLKYWWN LLQYWSQELK NSAVSLVNV T AIAVAEGTDR VIEWVQRIYR  
 818 AFLHIPRRIR QGFERALL

#### Cell Culture and Production of oligo-gp160

A single cell clone of HUT78 cells has been infected with human immunodeficiency virus type 1 (HIV-1), resulting in a cell line which continuously produces virus. Clone 6D5 is susceptible to chronic infection with HIV-1, as described in Getchell, *et al.*, *J. Clin. Microbiol.* 23:737-742 (1986). Clone 6D5 is infected with a specific strain of HIV-1, HTLV-III<sub>451</sub>, to produce the infected cell line 6D5451 (deposited with the American Type Culture Collection under the Budapest Treaty). The infected cell line is then grown in serum-free medium, by pelleting 6D5451 cells and resuspending them in serum-free medium (such as HB101 or HB104 medium, commercially available from Du Pont). The medium also contains growth supplements such as transferrin, insulin, and bovine serum albumin. To assist in the growth of cells, the cells were subcultured every four days. The 6D5451 cells were grown for 2 to 3 generations. When serum-free

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